

IN THE CLAIMS:

Please amend the claims as follows:

Claims 1 (Currently Amended): A connector (11, 21, 31, 41, 51, 61, 71, 81) comprising:
a housing (12, 22, 32, 42, 52, 82),
a spring biased contact surface (15, 25, 35, 45, 55, 65, 75, 85) facing in a front direction of said connector for establishing a contact with a connector counterpart, said contact surface being movable within a working area against a spring force from a first rest position to a second connecting position by a force directed to the contact surface (15, 25, 35, 45, 55, 65, 75, 85) upon establishing a contact with a connector counterpart, ~~characterized in that and~~

~~said connector comprises~~ a rolled spring (14, 24, 34, 44, 54, 64, 74, 84) with an outer end (19, 29, 39, 49, 59, 69) protruding in said front direction of said connector, ~~and wherein~~ said protruding outer end (19, 29, 39, 49, 59, 69) is attached to the housing of said connector, whereby said rolled spring is at least partly unrolled when said contact surface (15, 25, 35, 45, 55, 65, 75, 85) is moved against the spring force.

Claim 2 (Currently Amended): The connector according to claim 1, ~~characterized in that further comprising~~

~~said connector comprises~~ a contact part (27, 37, 47, 57, 67, 77, 87) which is movably arranged in said housing, wherein said contact surface (25, 35, 45, 55, 65, 75, 85) is arranged on a front part of said contact part and said rolled spring (24, 34, 44, 54, 64, 74, 84) ~~pressing~~ ~~presses~~ against a rear part of said contact part (27, 37, 47, 57, 67, 77, 87).

Claim 3 (Currently Amended): The connector according to claim 2, ~~characterized in that further comprising~~

~~said housing comprises~~ a terminal (T) protruding to an outside of the housing, and a conductive path (40) along an inner wall of the housing in order to connect said terminal and said contact part (47) to each other, ~~and wherein~~ said rear part of the contact part (47) against which said rolled spring (44) presses comprises a surface which is inclined in such a direction that the spring force presses the contact part (47) sideways against said conductive path (40).

Claim 4 (Currently Amended): The connector according to ~~any one of claims 1 to 3, characterized in that claim 1 wherein~~ said rolled spring (14, 24, 34, 44, 54, 64, 74, 84) is a rolled strip spring.

Claim 5 (Currently Amended): A ~~The~~ connector according to ~~any one of claims 1 to 4, characterized in that claim 1, wherein~~ said rolled spring (14, 24, 34, 44, 54, 64, 74, 84) is a constant force spring having a substantially constant spring force within said working area.

Claim 6 (Currently Amended): A ~~The~~ connector according to ~~any one of claims 2 to 5, characterized in that said connector (61, 81) comprises~~ claim 2 further comprising an intermediate part (66, 86) made of a conductive material and having in a first end protrusions and in a second end a terminal (T) protruding to an outside of the housing, ~~and wherein~~ grooves are formed in opposite sides of the contact part (67, 87), and ~~wherein~~ said protrusions are arranged into said grooves in order to allow the contact part to slide along said protrusions, and in order to establish a conductive path between the contact part (67, 87) and the terminal (T) via said intermediate part (66, 86).

Claim 7 (Currently Amended): A The connector according to claim 6, characterized in that wherein the rear part of said contact part (67,87) comprises a surface which is inclined in such a direction that the spring force presses the contact part (67,87) sideways and the walls of said grooves press against said protrusions of the intermediate part (66,86).

Claim 8 (Currently Amended): A The connector according to claim 2, further comprising any one of claims 2 to 5, characterized in that said connector (81) comprises an inclined surface along which said rolled spring (84) is arranged to be unrolled when said contact surface (85) is moved against the spring force, said inclined surface being inclined to compensate for a change in the outer diameter of the rolled spring during unrolling of the spring, such that the rolled spring constantly presses against the same point of the rear part of said contact part (87).

Claim 9 (Currently Amended): A The connector according to claim 2 any one of claims 2 to 5, characterized in that further comprising said connector (71) comprises an intermediate part (76) made of a conductive material and having in a first end a protrusion extending along said contact part (76) and in a second end a terminal (T) protruding to an outside of the housing, wherein said rear part of said contact part (77) is shaped with an eave, with a first side touching the protrusion of said intermediate part, and with a second opposite side directed away from the protrusion of said intermediate part, and said rolled spring (74) is arranged to press against said second side of the eave in order to press said eave against the protrusion of the intermediate part (76).